

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number:

0 396 084 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 90108230.5

(51) Int. Cl.⁵: **H04L 12/44**

(22) Date of filing: 30.04.90

(30) Priority: 03.05.89 US 346665

(43) Date of publication of application:
07.11.90 Bulletin 90/45(84) Designated Contracting States:
DE FR GB IT(88) Date of deferred publication of the search report:
13.01.93 Bulletin 93/02(71) Applicant: **THE UNIVERSITY OF TORONTO
INNOVATIONS FOUNDATION**

203 College Street, Suite 205
Toronto, Ontario M5T 1P9(CA)

(72) Inventor: **Boulton, Peter I.P.**
66 Wimbleton Road
Islington, Ontario M9A 3S1(GB)
Inventor: **Lee, E. Stewart**
15 Westridge Road
Islington, Ontario M9A 4E6(CA)

(74) Representative: **Weitzel, Wolfgang, Dr.-Ing.**
Friedenstrasse 10
W-7920 Heidenheim(DE)

(54) **Fault-tolerant star interconnected local area network.**

(57) A local area network is provided with increased tolerance to faults by arranging multiple hubs in nodes in the network. Internal connections in each node are controlled by a switch that interconnects two hubs of the same node upon detection of a failure to provide an alternate path for data transmission in the network.

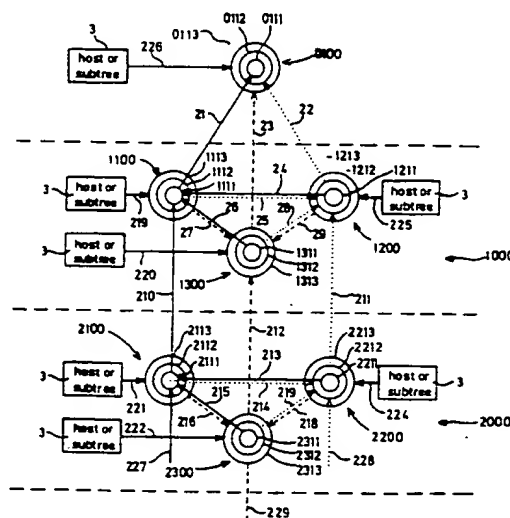


FIG 1

EP 0 396 084 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 90 10 8230

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	US-A-4 701 756 (W. E. BURR) * abstract; claims 1-7 *	1-3	H04L12/44
A	---	4-8	
D,Y	US-A-4 570 162 (P.I.P. BOULTON ET AL.) * column 2, line 19 - line 35; claims 1,10 *	1-3	
A	---	4-8	
A	INTERNATIONAL CONFERENCE ON COMMUNICATIONS vol. 1, June 1988, NEW YORK, US pages 54 - 60 T. WU ET AL. 'Optimum Routing for Fiber Network Design: Model and Applications' * page 55, left column, line 22 - line 35 * * page 56, left column, line 15 - line 30 * -----	1-8	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H04L
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 09 NOVEMBER 1992	Examiner PEREZ PEREZ J. C.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document			